

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: McGRAW-EDISON

Report Number: P455012

Luminaire Tested: **GALN-SA6A-830-U-SL3-HSS**

Issue Date: 1/4/2021

Test Information

Test Method: LM-79-08
Report Number: P455012
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2011-042-17)
Test Lab: INNOVATION CENTER
Issue Date: 1/4/2021
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: MCGRAW-EDISON
Catalog Number: GALN-SA6A-830-U-SL3-HSS
Description: GALLEON AREA AND ROADWAY LUMINAIRE
(6) 80 CRI, 3000K, 615mA LIGHTSQUARES WITH 16 LEDS EACH AND TYPE III
SPILL LIGHT ELIMINATOR OPTICS WITH HOUSE SIDE SHIELD
Light Source: -
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 17826 lumens
Efficiency: N/A
Efficacy: 97.9 lumens/watt
Luminous Opening: Rectangular (W 1.5' x L: 1' x H: 0')
IES Classification: Type III - Short
BUG Rating: B1 - U0 - G3

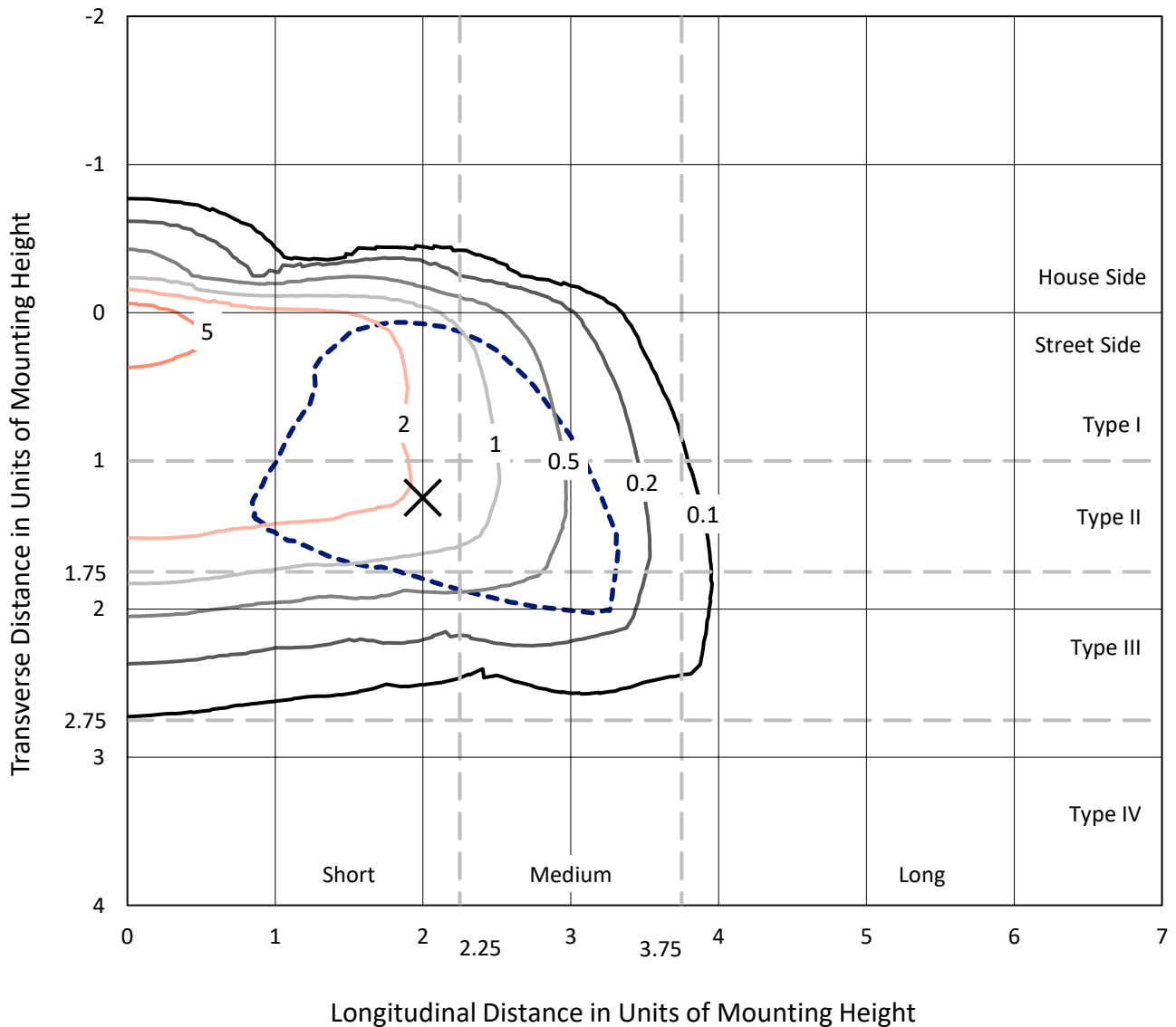
Input Watts (W): 182
Input Voltage (V): NR
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT



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Iso-Footcandle Lines of Horizontal Illumination

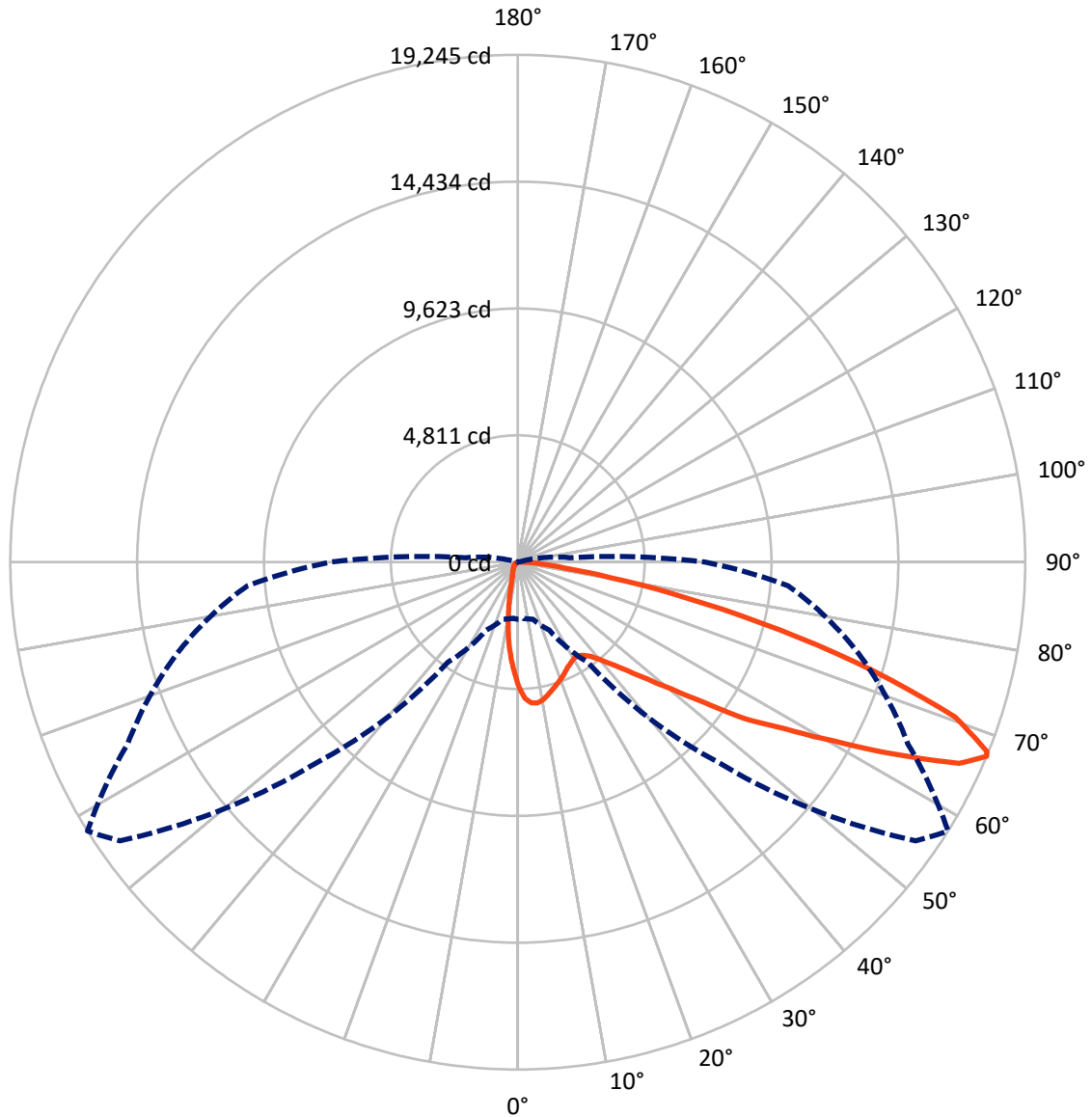
✕ Max cd
 - - - 1/2 Max cd



Based on 25 foot mounting height. Maximum calculated value = 8.4 fc
 Type III - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 58-Deg Lateral - - - Horizontal Cone Through 67-Deg Vertical



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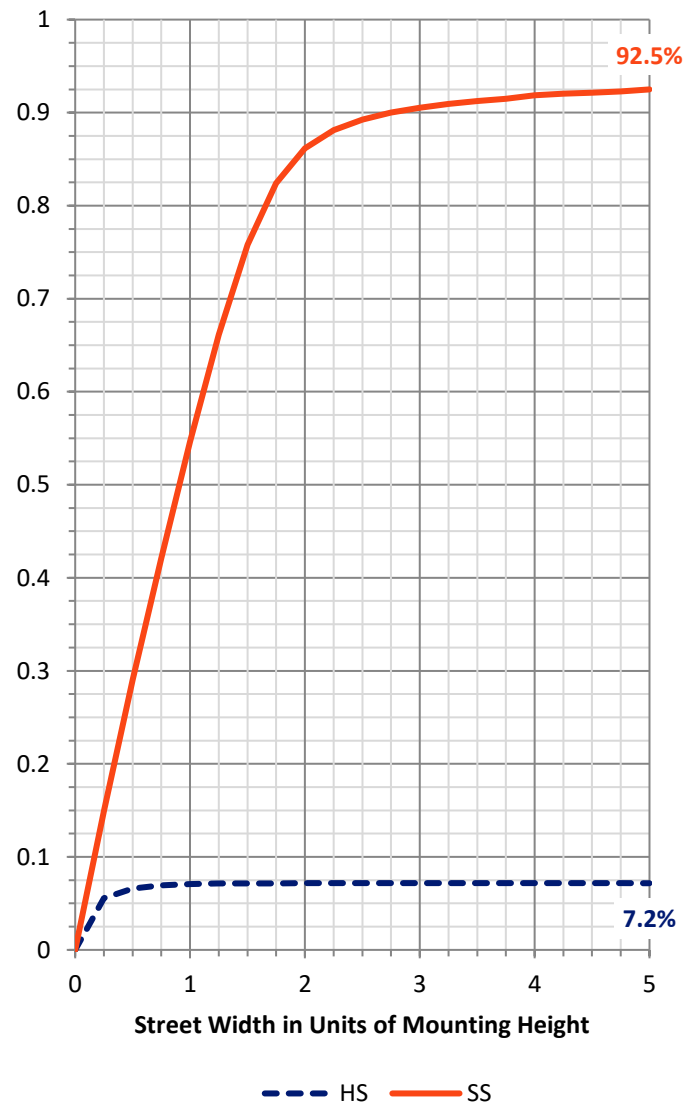
FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	1286.4	0.0	1286.4
	% Fixture	7.2	0.0	7.2
Street Side	Lumens	16539.6	0.0	16539.6
	% Fixture	92.8	0.0	92.8
Total	Lumens	17826.0	0.0	17826.0
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	383.5	2.2
10°-20°	828.2	4.6
20°-30°	1122.3	6.3
30°-40°	1556.5	8.7
40°-50°	2482.4	13.9
50°-60°	4291.1	24.1
60°-70°	4901.8	27.5
70°-80°	2043.6	11.5
80°-90°	216.7	1.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	17826.0	100.0
0°-180°	17826.0	100.0



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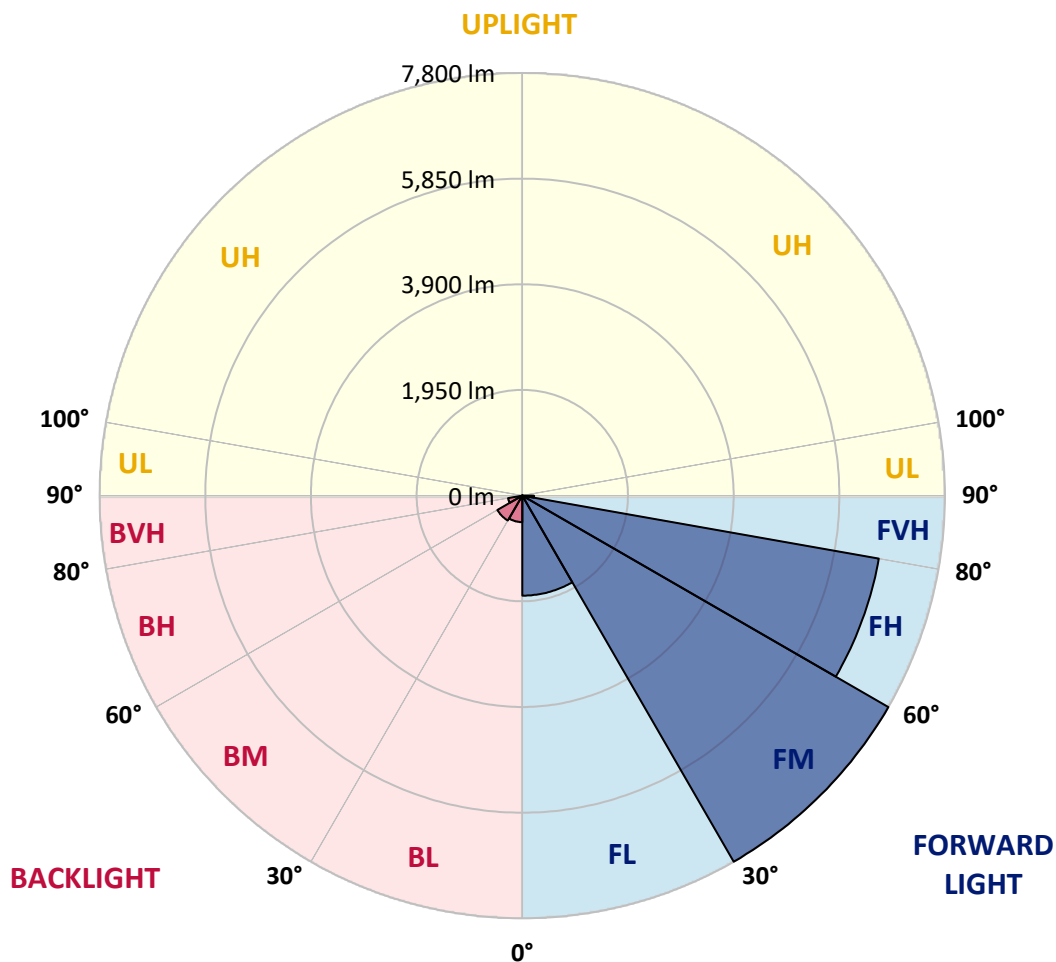
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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	1845.4	10.4			
FM (30°-60°)	7799.6	43.8			
FH (60°-80°)	6679.4	37.5			G3/7500
FVH (80°-90°)	215.1	1.2			G2/225
BL (0°-30°)	488.5	2.7	B1/500		
BM (30°-60°)	530.4	3.0	B1/1000		
BH (60°-80°)	265.9	1.5	B1/500		G1/500
BVH (80°-90°)	1.6	0.0			G0/10
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B1-U0-G3

Type III Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	58°	65°	75°	85°
0°	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5
2.5°	5484.3	5492.6	5461.7	5436.7	5372.3	5303.2	5211.5	5162.7	5079.3	4935.2	4775.5
5°	5613.0	5623.7	5618.9	5613.0	5587.9	5521.2	5404.5	5361.6	5238.9	5004.3	4716.0
7.5°	5327.1	5366.4	5371.1	5417.6	5461.7	5467.6	5423.6	5391.4	5278.2	5003.1	4610.0
10°	4948.3	4974.5	5012.6	5066.2	5172.2	5260.4	5303.2	5298.5	5233.0	4966.1	4486.1
12.5°	4565.9	4580.2	4638.6	4730.3	4860.1	5010.2	5124.6	5147.2	5148.4	4922.1	4382.4
15°	4237.1	4231.2	4276.4	4382.4	4564.7	4752.9	4957.8	4993.5	5050.7	4879.2	4286.0
17.5°	3956.0	3987.0	3994.1	4110.8	4278.8	4523.0	4783.9	4847.0	4961.4	4842.2	4206.1
20°	3782.1	3798.8	3814.2	3879.8	4031.0	4288.3	4620.7	4707.6	4878.0	4808.9	4116.8
22.5°	3730.9	3741.6	3728.5	3748.7	3855.9	4084.6	4443.2	4558.7	4798.2	4777.9	4044.1
25°	3770.2	3780.9	3749.9	3726.1	3763.0	3919.1	4271.7	4412.2	4733.8	4772.0	3989.3
27.5°	3865.5	3885.7	3842.8	3799.9	3778.5	3829.7	4137.1	4300.2	4689.8	4800.6	3964.3
30°	4014.4	4026.3	3994.1	3941.7	3892.9	3841.6	4066.8	4222.8	4677.9	4867.3	3961.9
32.5°	4176.4	4201.4	4183.5	4149.0	4085.8	3964.3	4087.0	4225.2	4706.4	4963.7	3991.7
35°	4376.5	4405.1	4421.8	4414.6	4333.6	4182.3	4215.7	4332.4	4782.7	5141.2	4072.7
37.5°	4573.0	4598.1	4692.2	4724.3	4652.8	4509.9	4465.8	4543.3	4950.6	5373.5	4219.2
40°	4798.2	4831.5	4963.7	5086.4	5051.9	4901.8	4820.8	4885.1	5207.9	5723.7	4496.8
42.5°	5013.8	5073.3	5274.7	5491.5	5523.6	5355.7	5302.1	5323.5	5589.1	6227.6	4883.9
45°	5319.9	5375.9	5635.6	5929.8	6081.1	5950.1	5895.3	5891.7	6112.1	6936.4	5511.7
47.5°	5761.9	5811.9	6118.0	6408.7	6677.9	6695.8	6592.1	6627.9	6769.6	7765.5	6281.2
50°	6303.9	6421.8	6623.1	6925.7	7285.4	7576.1	7608.2	7560.6	7682.1	8725.6	7205.6
52.5°	7091.2	7136.5	7321.1	7570.1	7991.8	8485.0	8867.3	8801.8	8763.7	9640.4	8139.5
55°	7678.5	7739.3	8026.3	8368.2	8986.4	9636.8	10465.9	10488.6	10007.3	10519.5	9053.2
57.5°	7501.0	7593.9	8028.7	8716.0	10075.2	11264.0	11881.1	11896.6	11158.0	11373.6	10084.7
60°	6589.7	6633.8	7256.8	8174.0	10168.1	13027.0	13888.3	13763.2	12329.0	12329.0	10996.0
62.5°	4673.1	4742.2	5247.3	6596.9	9183.0	13639.3	16292.1	16033.6	13941.9	13242.6	11539.2
65°	2986.4	2919.6	3254.4	4164.5	6841.1	12735.2	18385.1	18400.5	15459.5	13608.3	11242.6
67°	2163.2	2137.0	2233.5	2847.0	4638.6	10705.4	18429.1	19245.1	16331.4	13377.2	10294.4
67.5°	1978.6	1998.8	2069.1	2568.2	4214.5	9741.7	18229.0	19195.1	16528.0	13237.9	9951.3
70°	1499.7	1465.2	1541.4	1816.6	2526.5	6145.4	15681.0	17604.8	16283.8	11854.9	7951.3
72.5°	1103.1	1099.5	1205.5	1485.4	1945.2	3273.4	11771.5	14115.8	13303.4	9026.9	5006.6
75°	744.5	777.9	947.0	1241.2	1763.0	2122.7	8025.1	10240.8	9235.4	5125.8	2046.5
77.5°	424.1	426.5	609.9	997.0	1583.1	1708.2	4755.3	6524.2	4888.7	1704.6	607.5
80°	183.4	201.3	302.6	724.3	1312.7	1512.8	2726.7	3585.5	1977.4	360.9	196.5
82.5°	67.9	79.8	133.4	445.5	957.7	1246.0	1647.4	1711.8	670.6	127.5	122.7
85°	0.0	2.4	48.8	208.5	499.1	556.3	1100.7	1014.9	296.6	60.8	79.8
87.5°	0.0	0.0	0.0	21.4	65.5	207.3	341.9	381.2	71.5	21.4	19.1
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

	90°	95°	105°	115°	125°	135°	145°	155°	165°	175°	180°
0°	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5	4725.5
2.5°	4689.8	4612.3	4418.2	4224.0	4079.9	3959.6	3778.5	3679.6	3627.2	3549.8	3554.6
5°	4571.8	4414.6	4072.7	3718.9	3433.1	3154.3	2820.8	2686.2	2573.0	2508.7	2465.8
7.5°	4396.7	4164.5	3658.2	3186.5	2746.9	2259.7	1894.0	1649.8	1485.4	1424.7	1366.3
10°	4205.0	3896.4	3237.7	2583.7	1973.8	1471.1	1161.4	937.5	857.7	783.8	791.0
12.5°	4027.5	3652.2	2851.7	2039.3	1383.0	935.1	729.0	637.3	611.1	602.7	602.7
15°	3882.1	3418.8	2437.2	1533.1	948.2	671.8	583.7	558.7	549.1	546.8	546.8
17.5°	3727.3	3197.2	2063.2	1132.8	689.7	562.2	532.5	515.8	512.2	509.8	509.8
20°	3589.1	2974.4	1708.2	843.4	557.5	506.3	487.2	476.5	472.9	470.5	471.7
22.5°	3458.1	2776.7	1374.7	637.3	490.8	461.0	441.9	431.2	424.1	418.1	419.3
25°	3341.3	2586.1	1105.4	521.7	441.9	415.7	396.7	381.2	365.7	358.6	357.4
27.5°	3259.1	2419.3	861.2	446.7	397.9	369.3	345.4	326.4	306.1	295.4	293.0
30°	3191.2	2250.2	681.4	394.3	353.8	326.4	296.6	269.2	247.8	237.0	232.3
32.5°	3147.2	2089.4	537.2	351.4	316.9	283.5	250.2	222.8	198.9	188.2	185.8
35°	3140.0	1954.8	439.6	315.7	283.5	247.8	213.2	183.4	163.2	152.5	150.1
37.5°	3191.2	1851.1	368.1	287.1	256.1	216.8	178.7	151.3	133.4	125.1	123.9
40°	3328.2	1785.6	319.2	263.3	231.1	188.2	152.5	128.7	110.8	102.4	102.4
42.5°	3589.1	1788.0	287.1	240.6	206.1	160.8	129.8	107.2	91.7	84.6	82.2
45°	3996.5	1869.0	259.7	218.0	182.3	139.4	110.8	88.1	72.7	66.7	66.7
47.5°	4542.1	2029.8	235.9	195.4	160.8	119.1	94.1	71.5	58.4	52.4	52.4
50°	5255.6	2288.3	215.6	176.3	142.9	102.4	76.2	58.4	45.3	40.5	39.3
52.5°	6001.3	2607.5	191.8	159.6	122.7	87.0	61.9	45.3	34.5	31.0	29.8
55°	6824.4	2919.6	169.2	142.9	100.1	72.7	48.8	35.7	25.0	21.4	21.4
57.5°	7654.7	3225.8	141.8	119.1	78.6	53.6	38.1	26.2	16.7	13.1	13.1
60°	8357.5	3324.7	120.3	96.5	59.6	38.1	27.4	16.7	9.5	6.0	6.0
62.5°	8454.0	2991.1	101.3	73.9	42.9	26.2	14.3	9.5	3.6	2.4	2.4
65°	7929.8	2430.1	84.6	56.0	28.6	13.1	6.0	3.6	1.2	0.0	0.0
67°	7105.5	1970.3	69.1	41.7	20.3	8.3	3.6	1.2	0.0	0.0	0.0
67.5°	6894.7	1878.5	66.7	39.3	17.9	7.1	2.4	1.2	0.0	0.0	0.0
70°	5410.5	1406.8	47.6	23.8	10.7	4.8	0.0	0.0	0.0	0.0	0.0
72.5°	3362.8	795.7	34.5	14.3	7.1	2.4	0.0	0.0	0.0	0.0	0.0
75°	1271.0	278.7	23.8	9.5	4.8	0.0	0.0	0.0	0.0	0.0	0.0
77.5°	395.5	106.0	14.3	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0
80°	133.4	40.5	9.5	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0
82.5°	82.2	16.7	6.0	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	51.2	7.1	2.4	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	9.5	2.4	1.2	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)